

In the Claims:

Please amend the claims as shown:

CLAIMS

(Original) 1. A wound dressing comprising a therapeutic agent and a matrix comprising polymers joined by cross-linkages which cross-linkages comprise, or consist of, oligopeptidic sequences which are cleavable by a protease associated with wound fluid such that the rate of release of the therapeutic agent increases in the presence of the protease.

(Original) 2. A wound dressing according to claim 1 wherein the protease is associated with wound infection or ulcer formation.

(Original) 3. A wound dressing according to claim 1 or 2 wherein the polymers themselves are not degraded by the protease or other factors that may be present in the wound environment.

(Original) 4. A wound dressing according to claim 1, 2 or 3 wherein the polymer is a synthetic polymer.

(Original) 5. A wound dressing according to claim 4 wherein the polymer is a polymer of N-(2-hydroxypropyl) methacrylamide (HPMA).

(Original) 6. A wound dressing according to any one of the preceding claims wherein the oligopeptidic sequences consist of 3 to 15 amino acids.

(Currently Amended) 7. A wound dressing according to any one of the preceding claims wherein the protease is elastase and wherein the oligopeptidic sequence comprises or consists of lys-gly-ala-ala-ala-lys (**SEQ ID NO: 1**) -Ala-Ala-Ala-, Ala-Ala-Pro-Val (**SEQ ID NO: 2**), Ala-Ala-Pro-Leu (**SEQ ID NO: 3**), Ala-Ala-Pro-Phe (**SEQ ID NO: 4**), Ala-Ala-Pro-Ala (**SEQ ID NO: 5**) or Ala-Tyr-Leu-Val (**SEQ ID NO: 6**).

(Currently Amended) 8. A wound dressing according to any one of claims 1 to 6 wherein the protease is a matrix metalloproteinase and wherein the oligopeptidic sequence comprises or consists of-Gly-Pro-Y-Gly-Pro-Z- (**SEQ ID NO: 7**),-Gly-Pro-Leu-Gly-Pro-Z- (**SEQ ID NO: 8**),-Gly-Pro- Ile-Gly-Pro-Z- (**SEQ ID NO: 9**), or-Ala-Pro-Gly-Leu-Z- (**SEQ ID NO: 10**), where Y and Z are amino acids.

(Currently Amended) 9. A wound dressing according to any one of claims 1 to 6 wherein the protease is a collagenase and wherein the oligopeptidic sequence comprises or consists of-Pro-Leu-Gly-Pro-D-Arg-Z- **(SEQ ID NO: 11)**, -ProLeu-Gly-Leu-Leu-Gly-Z- **(SEQ ID NO: 12)**, -Pro-Gln-Gly- Ile-Ala-Gly-Trp- **(SEQ ID NO: 13)**, -Pro-Leu-Gly-Cys (Me)-His- **(SEQ ID NO: 14)**, -Pro-Leu-Gly-Leu-Trp-Ala- **(SEQ ID NO: 15)**, -Pro-Leu-Ala-Leu-Trp-Ala-Arg- **(SEQ ID NO: 16)**, or-Pro-Leu-Ala-Tyr-Trp-Ala-Arg- **(SEQ ID NO: 17)**, where Z is an amino acid.

(Currently Amended) 10. A wound dressing according to any one of claims 1 to 6 wherein the protease is a gelatinase and wherein the oligopeptidic sequence comprises or consists of-Pro-LeuGly-Met-Trp-Ser-Arg- **(SEQ ID NO: 18)**.

(Currently Amended) 11. A wound dressing according to any one of claims 1 to 6 wherein the protease is thrombin and wherein the oligopeptidic sequence comprises or consists of-Gly-Arg-Gly-Asp- **(SEQ ID NO: 19)**, -Gly-Gly-Arg-, -Gly-Arg-Gly-Asp-Asn-Pro- **(SEQ ID NO: 20)**, -Gly-Arg- Gly-Asp-Ser- **(SEQ ID NO: 21)**, -Gly-Arg-Gly-Asp-Ser-Pro-Lys- **(SEQ ID NO: 22)**, -Gly-Pro-Arg-, -Val-Pro-Arg-, or-Phe- Val-Arg-.

(Currently Amended) 12. A wound dressing according to any one of claims 1 to 6 wherein the protease is stromelysin and wherein the oligopeptidic sequence comprises or consists of-Pro-TyrAla-Tyr-Trp-Met-Arg- **(SEQ ID NO: 23)**.

(Original) 13. A wound dressing according to any one of the preceding claims wherein the therapeutic agent is an antimicrobial agent, a pain relieving agent, an antiseptic, an analgesic, a local anaesthetic, or a protease inhibitor.

(Original) 14. A wound dressing according to any one of the preceding claims wherein the therapeutic agent is incorporated within the matrix.

(Original) 15. A wound dressing according to claim 14 wherein the wound contacting layer of the dressing may comprise or consist of the matrix within which the therapeutic agent is incorporated.

(Original) 16. A wound dressing according to claim 15 wherein the dressing comprises a liquid permeable wound contacting layer, an intermediate layer comprising or consisting of the matrix within which the therapeutic agent is incorporated and an outer, liquid-impervious backing layer.

(Original) 17. A wound dressing according to any one of claims 1 to 13 wherein the dressing comprises a barrier layer which comprises the matrix, the barrier layer being for initially separating the therapeutic agent in the wound dressing from wound fluid when in use.

(Original) 18. A wound dressing according to claim 17 wherein the barrier layer comprises an apertured sheet having a composition comprising the cross-linked polymers applied thereto in occlusive fashion.

(Original) 19. A wound dressing according to claim 17 or 18, wherein a layer of the therapeutic substance is provided behind the barrier layer.

(Original) 20. A wound dressing according to claim 19, wherein an absorbent layer is provided behind the barrier layer and the therapeutic substance is dispersed in the absorbent layer.

(Original) 21. A wound dressing according to claim 17, wherein the barrier layer substantially encapsulates the therapeutic substance.

(Original) 22. A wound dressing according to any one of the preceding claims wherein the wound dressing comprises an absorbent layer and/or a backing layer.